



Michigan Energy Fair 2011

Friday, June 24, 2011 Workshops

	2:00 – 2:50pm	3:00 – 3:50pm	4:00-4:50pm
Community Wind	<p>Wind Energy Basics</p> <p><i>What is involved in getting electricity from the wind? We cover the basic physics of the process, with the implications for siting and towers. Fundamental terminology, guidelines, and steps to follow for developing a wind project are covered, as well as the various resources available.</i></p> <p>Trudy Forsyth, National Renewable Energy Laboratory (NREL)</p>		<p>Wind Siting & Zoning in Michigan</p> <p><i>An overview of wind zoning and siting issues to inform municipal officials and staff and the general public. The variety of issues related to the siting and zoning of wind energy systems are discussed.</i></p> <p>John Sarver, Chair, Michigan Wind Working Group</p>
Small Wind	<p>10KW Residential and Commercial Wind Energy Systems in Michigan</p> <p><i>Basic understanding of various tower types and impact on energy production for 10kW wind turbines. This workshop reviews two separate installations of 10kW wind turbines in South Michigan using two different tower types. Tilt-up towers and self-supporting lattice towers are discussed in detail. Basic wind energy concepts are covered.</i></p> <p>Art Toy, Four Elements Energy, Inc.</p>	<p>Is a Wind System right for you?</p> <p><i>This workshop presents information required to make a decision on whether a wind energy system is feasible and cost effective. It covers topics required for making an informed decision about home, farm or community wind energy. Topics include: defining your needs, assessing a wind site, selecting equipment, financial issues, zoning and permitting.</i></p> <p>Tom Gallery, North Wind Measurement</p>	<p>How to make Small Wind make Cents</p> <p><i>What kind of investment is a purchase of a small wind system? This session attempts to answer this question through the presentation of a financial analysis tool that will make clear the main variables that affect whether and when an investment in a small wind system will pay off.</i></p> <p>Dan Turner, Windustry</p>



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Saturday, June 25, 2011 Workshops

	10:00 – 10:50am	11:00 – 11:50am	12:00-12:50pm
Community Wind	<p>Introduction to Community Wind</p> <p><i>Community wind projects can come in many shapes and sizes but, with more local ownership and participation, they offer more opportunities than land lease payments, tax revenue, or other payments in lieu of taxes. This workshop explores how they stimulate local economies, strengthen rural communities and keep energy investment dollars local.</i></p> <p>Lisa Daniels, Windustry</p>	<p>Wind Energy Overview – Markets and Challenges</p> <p>Larry Flowers, American Wind Energy Association (AWEA)</p>	<p>Cash Flow Projection for a Wind Project</p> <p><i>A community wind project needs to be economically justifiable. Through example pro formas, this workshop shows how a financial model can help illuminate whether such a project would make economic sense.</i></p> <p>Dan Turner, Windustry</p>
Small Wind	<p>Wind Energy Basics</p> <p><i>What is involved in getting electricity from the wind? We cover the basic physics of the process, with the implications for siting and towers. Fundamental terminology, guidelines, and steps to follow for developing a wind project are covered, as well as the various resources available.</i></p> <p>Trudy Forsyth, National Renewable Energy Laboratory (NREL)</p>		<p>Wind Siting & Zoning in Michigan</p> <p><i>An overview of wind zoning and siting issues to inform municipal officials and staff and the general public. The variety of issues related to the siting and zoning of wind energy systems are discussed.</i></p> <p>John Sarver, Chair, Michigan Wind Working Group</p>



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Saturday, June 25, 2011 Workshops (continued)

	2:00 – 2:50pm	3:00 – 3:50pm	4:00 – 4:50pm
Community Wind	<p>Case Studies of Community Wind</p> <p>Speaker to be determined</p>	<p>Education and Community Engagement</p> <p><i>Learn about wise approaches to overcome misinformation and public fears about wind energy including the important role of education.</i></p> <p>Larry Flowers, American Wind Energy Association (AWEA)</p>	<p>Options for Leasing your Land</p> <p>Lisa Daniels, Windustry</p>
Small Wind	<p>How to make Small Wind make Cents</p> <p><i>What kind of investment is a purchase of a small wind system? This session attempts to answer this question through the presentation of a financial analysis tool that will make clear the main variables that affect whether and when an investment in a small wind system will pay off.</i></p> <p>Dan Turner, Windustry</p>	<p>Site Assessment for Wind Energy</p> <p><i>A basic introduction to the process normally required to perform a wind site assessment. Topics include the fundamentals of understanding wind quantity, resource & quality, using wind maps to determine wind speeds, calculating tower height & other siting and installation considerations necessary in selecting a wind system that will optimally perform at your specific site.</i></p> <p>Tammy Stoner, Wind Power Services LLC</p>	<p>Small Wind Buyers Guide</p> <p><i>This session explores how to choose a wind system that works for you, the many different turbines available and the technology involved.</i></p> <p>Trudy Forsyth, National Renewable Energy Laboratory (NREL)</p>